

# **E872 Stripping Documentation**

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# Purpose & contents

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## Purpose of this talk

*to document the strip procedure*

*to bring experimenters up to date on the status of the strip software and hardware*

*to start an informed discussion on our future stripping goals*

## Content of this talk

*overview of the current strip procedure*

- Strip flowchart & architecture*
- Strip hardware status*
- Strip software status*

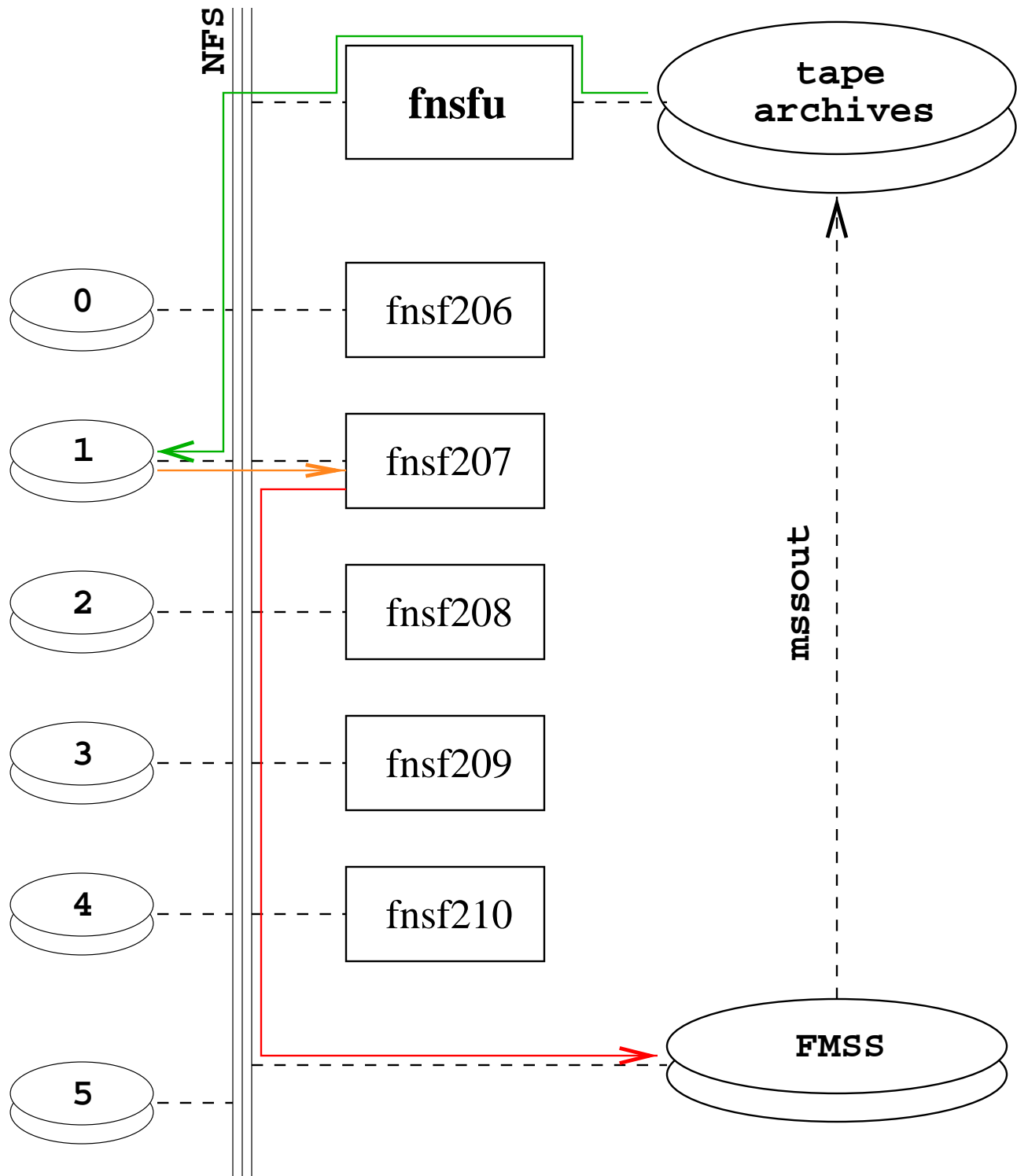
*the current state of stripping*

*the current state of documentation*

*conclusions & outlook*

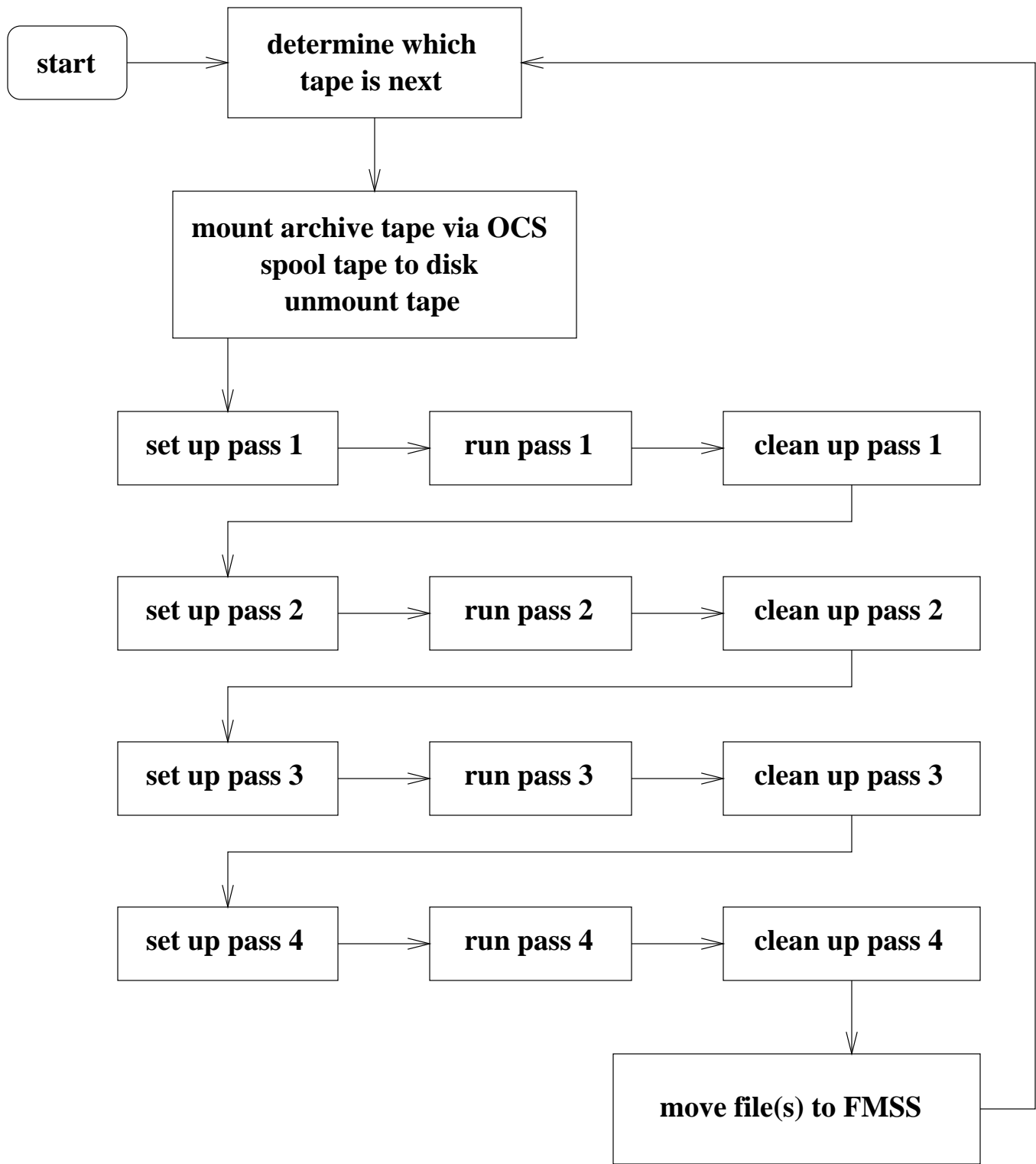
# Strip architecture

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# The strip procedure

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# Strip hardware

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## **During first strip (until now):**

**Access to 6 farms computers:**

1 I/O node (**fnsfu**)

5 worker nodes (**fnsf206-210**)

**Access to 6 large disk partitions (~25 Gb total)**

**Access to FMSS and archives for mass storage**

## **Recent developments:**

**Nodes fnsf206-210 are to be shut down Aug. 31, 1999**

**Node fnsfu is to remain**

**FMSS space is to remain**

**Hard drive partitions are to remain**

**Replacement nodes can be requested...**

# Strip software I: binaries

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Strip is done via custom "myanal" programs

Source code is available at:

`fsgi02:~e872/prod/strip/`

Binaries used in FARMS are at:

`fnsfu:~baller/bin/`

Typical strip procedure:

- pass 1** *filter out obvious junk events (creates .pass1.strip file)*
- pass 2** *keep only events with nice track, energy, etc.  
(creates .nustrip file)*
- pass 3** *extract interspill events for analysis (.t1t3, .ff, etc.)*
- pass 4** *generate calibration histograms (.hbook file)*

# Strip software II: scripts

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Scripts are written in Perl, expect, and sh.

Scripts are used like "glue" to do tasks that fit the strip job together. For example:

*handle FARMS tape allocation/deallocation  
set filenames in .ctl and .ser files  
manage disk space*

Locations of scripts:

**fnsfu:~baller/bin/  
fsgi02:~e872/strip/**

Main organizing script:

**fsgi02:~e872/strip/e872\_strip**

- *is a "meta"-script*
- *invokes scripts remotely, in the right order, with the right arguments*
- *can handle lists of tapes to strip*

The scripts are in disrepair.

**E872 Strip Project  
John J. Trammell**

# Strip status

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1. All runs have been stripped with some version of the strip code.
2. Not all runs have been stripped with the most recent version of the analysis code.
3. Not all runs have been stripped with the most recent versions of the alignment data.
4. Not all runs have had fiducial fiber (.ff) and T1-T3 (.t1t3) events extracted.
5. It is likely that no .nustrip files are missing.



# Strip documentation status

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Man pages for the following scripts and binaries exist on fnsfu:

```
daftcptape2file(1)
e872_cleanup(1)
e872_fmss(1)
e872_fmsscheck(1)
e872_freetape(1)
e872_get_runno(1)
e872_mount_copy_unmount(1)
e872_strip(1)
e872_stripwrap(1)
```

In addition, the following general documentation is available:

```
documentation in fnsfu:~baller/doc/
```

# Conclusions & outlook

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Doing a restrip is feasible:

- software is still available
- hardware can be made available

## Pros of restripping

restripping with better code  
might improve efficiency

we can replace missing data  
and calibration files

## Cons of restripping

it's a lot of work

it's not known to be necessary

larger gains are (possibly)  
available via other means